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1. PRELIMINARY AMENDMENT W/MARKED-UP VERSION OF
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APPLICANT : SHYH-HAUR SU ET AL.
SERIAL NO. : ~~10/021,598~~
FILED : DECEMBER 12, 2001
FOR : MULTI-REAGENT INKJET
CARTRIDGE

ATTORNEY : LJD:TAZ
FILE NO. : 0158/OK098

MAILED : 2/4/02 MAILER: DD

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PATENT TRADEMARK OFFICE

Docket No: 0158/OK098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Shyh-Haur SU et al.

Serial No.: 10/021,598

Art Unit: TBA

Filed: December 12, 2001

Examiner: TBA

For: MULTI-REAGENT INKJET CARTRIDGE

PRELIMINARY AMENDMENT

Hon. Commissioner of
Patents and Trademarks
Washington, DC 20231

February 4, 2002

Sir:

Prior to examination, Applicants wish to amend the above-identified application as follows:

IN THE CLAIMS:

Please amend claims 1, 2, 5, 6, 10, 11, 14, and 15 as follow:

1. (Amended) An inkjet cartridge for dispensing a predetermined amount of fluids comprising:

an inkjet print head having a plurality of fluid channels; and

a plurality of capillary tubes, filled with predetermined fluids, disposed on the inkjet print head so as to communicate with the fluid channels respectively and provide capillarity sufficient to prevent the fluids in the capillary tubes from leaking through the fluid channels but not so great as to prevent the fluids in the capillary tubes from dispensing through the fluid channels.

2. (Amended) The inkjet cartridge as claimed in claim 1, wherein the inkjet print head comprises:

a base, having a plurality of first through holes corresponding to the capillary tubes respectively, for receiving the capillary tubes;

an inkjet chip, for actuating the fluids in the capillary tubes to dispense, disposed on the base and provided with a plurality of second through holes corresponding to the first through holes respectively; and

a nozzle plate, for dispensing the fluids in the capillary tubes, disposed on the inkjet chip and provided with a plurality of orifices corresponding to the second through holes respectively, wherein the first through holes, the second through holes and the orifices form the fluid channels respectively.

5. (Amended) The inkjet cartridge as claimed in claim 1, wherein parts of the capillary tubes are filled with gel-like materials above the received fluid so as to prevent the fluid from leaking.

6. (Amended) The inkjet cartridge as claimed in claim 1, wherein parts of the capillary tubes are filled with oil-like materials above the received fluid so as to prevent the fluid from leaking.

10. (Amended) A cartridge for dispensing a predetermined amount of reagents comprising:

a print head having a plurality of fluid channels; and

a plurality of capillary tubes, filled with predetermined reagents, disposed on the print head so as to communicate with the fluid channels respectively and provide capillarity sufficient to prevent the reagents in the capillary tubes from leaking through the fluid channels but not so great as to prevent the reagents in the capillary tubes from dispensing through the fluid channels.

11. (Amended) The cartridge as claimed in claim 10, wherein the print head comprises:

a base, having a plurality of first through holes corresponding to the capillary tubes respectively, for receiving the capillary tubes;

an inkjet chip, for actuating the reagents in the capillary tubes to dispense, disposed on the base and provided with a plurality of second through holes corresponding to the first through holes respectively; and

a nozzle plate, for dispensing the reagents in the capillary tubes, disposed on the inkjet chip and provided with a plurality of orifices corresponding to the second through holes respectively, wherein the first through holes, the second through holes and the orifices form the fluid channels respectively.

14. (Amended) The cartridge as claimed in claim 10, wherein parts of the capillary tubes are filled with gel-like materials above the received reagent so as to prevent the reagent from leaking.

15. (Amended) The cartridge as claimed in claim 10, wherein parts of the capillary tubes are filled with oil-like materials above the received reagent so as to prevent the reagent from leaking.

Please add the following new claims:

19. (New) The inkjet cartridge as claimed in claim 1, wherein the capillary tubes are disposed on the inkjet print head in an array manner.

20. (New) The cartridge as claimed in claim 10, wherein the

capillary tubes are disposed on the print head in an array manner.

REMARKS

Entry of these amendments, prior to examination, is respectfully requested. A marked-up version of the claims, which indicates all amendments made, is submitted herewith.

Claims 1, 2, 10 and 11 are amended to add the term "fluid" to describe the channels. Support for the amended claims appear in the specification on page 7, lines 8-12.

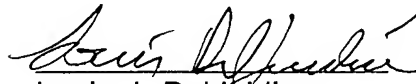
Claims 1 and 10 are amended to replace the term "an array" with "plurality". Support for the amended claims appear in the specification on page 6, lines 19-21.

For claims 5, 6, 14 and 15 there is a clear sentence syntax error. The claims currently read in the singular but because of the above amendments the claims should read in the plural.

Claim 11 was amended to fix typographical and grammatical errors.
None of the amendments introduce new matter.

An early and favorable examination is earnestly solicited.

Respectfully submitted,



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